Notice of Allowability	Application No.	Applicant(s)
	10/080,676	ANDERSON ET AL.
	Examiner	Art Unit
	Joseph R. Maniwang	2144
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS
1. $\boxtimes$ This communication is responsive to <u>5/23/06</u> .		
2. X The allowed claim(s) is/are <u>1,2,4-28 and 30-33</u> .		
3.	been received.  been received in Application No cuments have been received in this is of this communication to file a reply of ENT of this application.  itted. Note the attached EXAMINER' as reason(s) why the oath or declarate to be submitted. on's Patent Drawing Review (PTO-1) as Amendment / Comment or in the Oct. B4(c)) should be written on the drawing he header according to 37 CFR 1.121(c) sit of BIOLOGICAL MATERIAL in	national stage application from the complying with the requirements  S AMENDMENT or NOTICE OF tion is deficient.  948) attached  office action of the back) of the complying with the front (not the back) of the complying in the submitted. Note the
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date  4. ☐ Ēxaminer's Comment Regarding Requirement for Deposit of Biological Material	6. Interview Summary Paper No./Mail Dat 7. Examiner's Amendn 8. Examiner's Stateme 9. Other	e <u>81406</u>

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### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

- 2. Authorization for this examiner's amendment was given in a telephone interview with Attorney Thomas C. Fiala (Reg. No. 43,610) on 08/04/06.
- 3. The application has been amended as follows:

## **Specification:**

[0046] As used herein, the term "computer program product" may refer, in part, to removable storage unit 452, removable storage unit 454, a hard disk installed in hard disk drive 450, or a carrier wave carrying software over a communication path 466 (wireless link or cable) to communication interface 464. A computer useable medium can be a storage medium, includeing a magnetic media, optical media, or other recordable media, or a transmission media that transmits a carrier wave or other signal. These computer program products are means for providing software to computer system 202a.

#### Claim 27:

A computer program product comprising a computer useable storage medium

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having computer program logic for enabling a processor in a network gateway to perform caching of domain name system information, said network gateway further including a customer premises equipment interface, a network interface, and a cache for storing domain names and corresponding IP addresses, comprising:

means for enabling the processor to load the cache with a preliminary set of domain names and corresponding IP addresses, the preliminary set of domain names and corresponding IP addresses representing a selected set of addresses in an IP network to which the customer premises equipment interface is entitled to have access based on restrictions made by a network entity;

means for enabling the processor to receive a domain name system query from said customer premises equipment interface, said query including an unresolved domain name;

means for enabling the processor to determine if said unresolved domain name is stored in the cache;

means for enabling the processor to obtain an IP address corresponding to said unresolved domain name from the cache, generate a response to said query that includes said IP address corresponding to said unresolved domain name, and provide said response to the customer premises equipment interface, if said unresolved domain name is stored in the cache; and

means for enabling the processor to provide said query to the network interface if said unresolved domain name is not stored in the cache.

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# Allowable Subject Matter

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- 4. Claims 1, 2, 4-28, and 30-33 are allowed.
- 5. The following is an examiner's statement of reasons for allowance:
- The closest prior art is Moineau et al. (WO 00/27092), hereinafter referred to as 6. Moineau, and Huitema (U.S. Pat. No. 6,016,512). Moineau disclosed a method for caching domain name system information in a network gateway (see Fig. 1, element 10) that included a customer premises equipment interface (see Fig. 1, element 12), a network interface (see Fig. 1, element 20), and a cache (see Fig. 1, elements 15, 16) for storing domain names and corresponding IP addresses, comprising receiving a domain name system query from a customer premises equipment over the customer premises equipment interface, said query including an unresolved domain name (see p. 4, lines 1-11). Moineau disclosed requests for numeric addresses in response to a domain name, such requests arriving from a CPE, i.e., "stations" (see p. 7, lines 14-16); determining if said unresolved domain name is stored in the cache (see p. 7, lines 14-27). Moineau disclosed lists of domain names and their corresponding IP addresses stored within the cache; where if said unresolved domain name is stored in the cache, obtaining an IP address corresponding to said unresolved domain name from the cache, generating a response to said query that includes said IP address corresponding to said unresolved domain name, and proving said response to the customer premises equipment interface for transmission to said customer premises equipment (see p. 9, lines 11-14); and if said unresolved domain name is not stored in said cache, providing said query to the network interface for transmission to a network for resolution of said

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query (see p. 5, lines 4-11; p. 8, lines 3-8). Huitema disclosed loading the cache with a preliminary set of domain names and corresponding IP addreses (see column 3, lines 44-67).

- The prior art references of record do not teach alone or in combination all the 7. limitations together within independent claims 1, 12, 16, 17, 24, 26, 27, and 32. For example, the independent claims contain the limitation wherein the preliminary set of domain names and corresponding IP addresses represent a selected set of addresses in an IP network to which the customer premises equipment is entitled to have access based on restrictions made by a network entity. Moineau discloses a cache of DNS entries, but does not explicitly disclose loading the cache with a preliminary set of domain names and corresponding IP addresses wherein the preliminary set of domain names and corresponding IP addresses represent a selected set of addresses in an IP network to which the customer premises equipment is entitled to have access based on restrictions made by a network entity as claimed. Huitema discloses loading a cache with a preliminary set of domain names, but does not provision its data sets based on the permissions given to a customer premises equipment. Therefore, the independent claims have allowable subject matter and are allowable over the prior art of record. The dependent claims of these claims are also allowable.
- 8. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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#### Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph R. Maniwang whose telephone number is (571) 272-3928. The examiner can normally be reached on Mon-Fri 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William C. Vaughn can be reached on (571) 272-3922. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JM

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